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Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11738-1 (1993): Bulk handling equipment - Crawler tractors - Data sheet, Part 1: Information to be supplied by purchaser [MED 7: Material Handling Systems and Equipment]



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“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

राशि प्रहस्तन उपस्कर—सर्पी ट्रैक्टर—आकड़ेपत्र

भाग 1 क्रेता द्वारा दी जाने वाली सूचना

(पहला पुनरीक्षण)

Indian Standard

BULK HANDLING EQUIPMENT —
CRAWLER TRACTORS — DATA SHEET

PART 1 INFORMATION TO BE SUPPLIED BY PURCHASER

(*First Revision*)

UDC 658.711.6 (083.22) : 621.868.238.6.033

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Bulk Handling Equipment Sectional Committee had been approved by the Heavy Mechanical Engineering Division Council.

This standard was first published in 1986. The standard was earlier covering the information to be provided by both, the purchaser and the manufacturer/supplier. This revision has been undertaken to segregate the information required to be furnished by the purchaser and the manufacturer. Accordingly, this standard is being published in two parts.

This standard (Part 1) lays down the information to be provided by the purchaser at the time of enquiry or order. He may also provide the additional information such as sieve analysis, etc, suitably which may help the manufacturer in selecting the best suited equipment for the duty required to be performed by the equipment.

IS 11738 (Part 2) : 1993 'Bulk handling equipment — Crawler tractors — Data sheet: Part 2 Information to be provided by manufacturer/supplier' will lay down the information required to be furnished by the manufacturer/supplier in reply to a tender enquiry or at the time of supply of the equipment to the purchaser.

*Indian Standard***BULK HANDLING EQUIPMENT —
CRAWLER TRACTORS — DATA SHEET****PART 1 INFORMATION TO BE SUPPLIED BY PURCHASER***(First Revision)***1 SCOPE**

This Indian Standard covers the data that shall be provided by the purchaser at the time of enquiry or order.

IS No.

12645 : 1991

Title

Bulk handling equipment —
Crawler and tractor dozer —
Determination procedure for
volumetric ratings of blades

2 REFERENCES

The following standards are necessary adjuncts to this standard:

IS No.	Title
10463 (Part 6) : 1983	Glossary of terms for bulk handling equipment: Part 6 Cyclic loose bulk handling equipment (Non-stationary)

3 TERMINOLOGY

For the purpose of this standard terms and definitions given in IS 10463 (Part 6) : 1983 shall apply.

4 DATA SHEET**4.1 Application and Site Data**

-
- 1) Applicable to _____ Proposal/Purchase
 - 2) Service _____ Continuous/Intermittent
Days per year _____ Days
 - 3) Duty : Operating hours per shift _____ h
Shifts per day _____
 - 4) Site altitude _____
 - 5) Environment _____ Dusty/Foggy/Snowy/Slushy/Clean
 - 6) Relative humidity, Max at _____ °C _____ percent
 - 7) Temperature : Max _____ °C; Min _____ °C
 - 8) Rainfall : Average _____ mm; Min _____ mm
 - 9) Area classification _____ Hazardous/Non-Hazardous
 - 10) Average dozing distance _____ m
 - 11) Average and maximum ground grade _____
 - 12) Average ripping distance _____ m
 - 13) Water table _____
 - 14) Soil bearing pressure _____ MPa

4.2 Materials Handled Data

- 1) Material _____
- 2) Bearing soil _____
- 3) Type of rock _____
- 4) Joint formation (layer condition) _____
- 5) Weathered condition _____
- 6) Seismic wave velocity _____
- 7) Shear angle _____
- 8) Abrasiveness _____
- 9) Moh's hardness _____
- 10) Moisture content _____ percent
- 11) Swell factor _____
- 12) Chemical activity _____ Corrosive/Hygroscopic

4.3 Job Efficiency

- 1) Day time _____
- 2) Night time _____
- 3) Duty _____ minutes per hour

4.4 Attachments

4.4.1 Blades

- 1) Type _____
- 2) Capacity (Volumetric) (see IS 12645 : 1991) _____

4.4.2 Rippers

4.5 Production Requirements (Based on Average Conditions)

Capacity	Volume (In Loose Condition) m ³	Mass tonne
Per hour		
Per day		
Per month		
Per year		

4.6 Other Requirements

4.6.1 Optional Attachments/Equipment _____

4.6.2 Other Attachments/Equipment _____

4.6.3 Safety Systems _____

4.6.4 Noise Levels _____

4.6.5 Emmission Levels _____

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BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones : 331 01 31, 331 13 75

Telegrams : Manaksanstha
(Common to all offices)

Regional Offices :

Telephone

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg
NEW DELHI 110002

{ 331 01 31
{ 331 13 75

Eastern : 1/14 C. I. T. Scheme VII M, V. I. P. Road, Maniktola
CALCUTTA 700054

{ 37 84 99, 37 85 61
{ 37 86 26, 37 86 62

Northern : SCO 445-446, Sector 35-C CHANDIGARH 160036

{ 53 38 43, 53 16 40
{ 53 23 84

Southern : C. I. T. Campus, IV Cross Road, MADRAS 600113

{ 235 02 16, 235 04 42
{ 235 15 19, 235 23 15

Western : Manakalaya, E9 MIDC, Marol, Andheri (East)
BOMBAY 400093

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